**POWER SUPPLY**

**TIMER SETTINGS TABLE**

<table>
<thead>
<tr>
<th>JUMPER</th>
<th>CONFIGURES</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Door Supervision (Part of Tamper circuit)</td>
</tr>
<tr>
<td>2</td>
<td>Voltage Sense Mode (Senses Lock Voltage as Valid User Input)</td>
</tr>
<tr>
<td>3</td>
<td>Shunt Contact Mode (Senses Dry Contact as Valid User Input)</td>
</tr>
<tr>
<td>4</td>
<td>Intrusion Detect Enable (Explained on reverse)</td>
</tr>
<tr>
<td>5</td>
<td>Shunt Recycle Enable (Explained on reverse)</td>
</tr>
<tr>
<td>6</td>
<td>RESERVED (Factory Diagnostic)</td>
</tr>
<tr>
<td>7 &amp; 8</td>
<td>Shunt Delay Timer (Set same as Lock Time)</td>
</tr>
<tr>
<td>9</td>
<td>Extended Time Select Ext. Silent Time 03-90 Min.</td>
</tr>
<tr>
<td>10</td>
<td>Horn Volume Select 96db or 103db</td>
</tr>
</tbody>
</table>

**SHUNT CONTACT MODE (ON=N/O)**

- **RESERVED**
- **SHUNT DELAY 0**
- **SHUNT DELAY 1**

**VOLTAGE SENSE MODE**

- **TS1-3&4 Voltage Sense Input**
- **TS1-1&2 Shunt Contact Input**

**TAMPER SWITCH**

- **ON THIS CORNER TAMPER**

**SIDE VIEW**

**ES4200-K3 and -K4 (RIM hardware) requires a 2.5” deep, 3-gang electrical switch box. See INS-DMA-PB for Pushbutton specifications. (Not available with K3, K4 key options)**

**FUNCTIONAL DESCRIPTION**

- **ES440 Pushbutton; ES450 Key Switch; ES600 Annunciator**

**TROUBLESHOOTING TIPS**

- **Horn won’t Reset** - Verify Tamper Switch is closed.
- **LED always Green** - Normal condition when Jumper 4 is OFF; Verify Shunt Contact & Voltage Sense jumpers are correct for your application; Verify Key Switch is Vertical and Bypass Sense Input is open.
- **Alarm when Door Opens** - Verify that 50S31 Jumpers and Silent Time are set greater than 0 sec; Verify Intrusion Jumper is set correctly for application.
- **Clicking Output Relays** - Verify Jumper 6 (Reserved) is OFF.

**OPERATION**

**VALID ACCESS / PROPPED DOOR OPERATION**

<table>
<thead>
<tr>
<th>SET</th>
<th>SILENT TIME SELECT</th>
<th>ALARM DELAY TIME SELECT</th>
<th>AUTO RESET TIME SELECT</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0 Sec</td>
<td>0 Sec</td>
<td>0 Sec</td>
</tr>
<tr>
<td>1</td>
<td>3 Sec</td>
<td>3 Sec</td>
<td>3 Sec</td>
</tr>
<tr>
<td>2</td>
<td>5 Sec</td>
<td>4 Min</td>
<td>5 Sec</td>
</tr>
<tr>
<td>3</td>
<td>7 Sec</td>
<td>4.5 Min</td>
<td>7 Sec</td>
</tr>
<tr>
<td>4</td>
<td>10 Sec</td>
<td>5 Min</td>
<td>10 Sec</td>
</tr>
<tr>
<td>5</td>
<td>12 Sec</td>
<td>6 Min</td>
<td>12 Sec</td>
</tr>
<tr>
<td>6</td>
<td>15 Sec</td>
<td>7 Min</td>
<td>15 Sec</td>
</tr>
<tr>
<td>7</td>
<td>20 Sec</td>
<td>8 Min</td>
<td>20 Sec</td>
</tr>
<tr>
<td>8</td>
<td>25 Sec</td>
<td>9 Min</td>
<td>30 Sec</td>
</tr>
<tr>
<td>9</td>
<td>30 Sec</td>
<td>10 Min</td>
<td>45 Sec</td>
</tr>
<tr>
<td>A</td>
<td>35 Sec</td>
<td>11 Min</td>
<td>1 Min</td>
</tr>
<tr>
<td>B</td>
<td>45 Sec</td>
<td>12 Min</td>
<td>2 Min</td>
</tr>
<tr>
<td>C</td>
<td>1 Min</td>
<td>3 Min</td>
<td>3 Min</td>
</tr>
<tr>
<td>D</td>
<td>2 Min</td>
<td>4 Min</td>
<td>4 Min</td>
</tr>
<tr>
<td>E</td>
<td>6 Min</td>
<td>5 Min</td>
<td>5 Min</td>
</tr>
<tr>
<td>F</td>
<td>3.5 Min</td>
<td>9 Min</td>
<td>INFINITE</td>
</tr>
</tbody>
</table>

**TRIWINAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>VOLTS</th>
<th>AMPS</th>
<th>N/O</th>
<th>N/C</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-24 VAC/DC</td>
<td>250mA</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Voltage Sense</td>
<td>12-24 VAC/DC</td>
<td>15mA</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**TAMPER OPERATION**

- **ARMED STATE - LED (Door Supervision Enabled)**
- **TAMPER** - Door open, normal, and Tamper switch closed

**MECHANICAL SPECIFICATIONS**

- The ES4200 - K0 & K1 mounts flush in a 2.5” deep, 2-Gang electrical switch box.
- ES4200-K0 and K4 (RIM hardware) requires a 2.5” deep, 3-Gang electrical switch box.
- Optional Pushbutton-equipped units mount in a 2.5” deep, 3-gang electrical switch box. See INS-DMA-PB for Pushbutton specifications. (Not available with K3, K4 key options)

**MATERIALS**

- **F E POWER SUPPLY**
- **TAMPER SETTINGS TABLE**
- **SIDE VIEW**
- **ES4200**
- **ES4200-K3 and -K4 (RIM hardware) requires a 2.5” deep, 3-gang electrical switch box. See INS-DMA-PB for Pushbutton specifications. (Not available with K3, K4 key options)**

**OTHER FEATURES**

- **Shunt Recycle** - See Step 3.
- **Door Supervision** - See Step 1.
- **Intrusion Detect** - See Step 2.
- **Loud Horn Volume** - See Step 7.
- **Extended Silent Time** - See Step 4.
- **Shunt Delay Timer** - See Step 4.

**OPTIONAL ACCESSORIES**

- **ES440 Pushbutton; ES450 Key Switch; ES600 Annunciator**

**CONTACT INFORMATION**

800-272-3555 Fax 512-321-9181
800-722-3555
www.dsigo.com
Fax 512-321-9181
Email: dsi@dsigo.com

**DESIGNATED SECURITY INC**

1402 Hawthorne St., Bastrop, Texas 78602

INS4200 701010
1. **DOOR, SUPERVISION, AND TAMPER**
   - Connect N/C Door Contact to TS1 7&B.
   - If resistors are installed for Door Supervision:
     - A) place Jumper 1 ON and put resistors at door switch as shown in diagram.
     - B) If unused, leave Jumper OFF and use a closed-loop Door Switch circuit.

2. **INTRUSION DETECTION**
   - A) Jumper 4 is ON for Access Control and Emergency Exit Only applications.
   - B) Jumper 4 is OFF for Door Prop/Held applications without Access Control.
   - **NOTE:** If OFF, LED is Green except during a Door Prop Alarm.
   - If OFF, Go to Step 4 Timer Settings (Skip Step 3).

3. **TIMER SETTINGS**
   - **SHUNT DEFAULT SETUP**
     - Timer has - 3 minutes to 90 minutes.
     - Connect 12-24 VAC/DC when the door is opened.
     - Timer Settings are used to activate or deactivate outputs.

4. **SILENT TIME SELECT**
   - Begins when the door is opened by a valid user.
   - Timer has two ranges selected with Jumper 9.
   - Normal – 0 seconds to 2.5 minutes (Jumper OFF)
   - Extended – 3 minutes to 90 minutes (Jumper ON)
   - After selecting appropriate range, turn dial to SET if for the Silent Time period desired for your application.

5. **POWER**
   - Connect 12-24 VAC/DC to TS1 11&B.
   - Not polarity sensitive.

6. **DOOR STATUS RELAY**
   - TS2-22,23,24 changes state when the Door Input changes. Used to monitor changes in Door Contact status.

7. **DOOR PROP ALARM RELAY**
   - TS2-19,20,21 changes state when a door is held open beyond the Silent and Alarm Delay time, combined.

8. **FORced DOOR/TAMPER ALARM RELAY**
   - TS2-16,17,18 changes state when a door is forced or a tamper condition exists (Door Supervision/Tamper Switch).

9. **BYPASS/KEY SWITCH STATUS RELAY**
   - TS2-13,14,15 changes state during Bypass (TS1 9&B) and Key Switch inputs. Used to monitor for changes in Bypass status.

**ADDITIONAL FEATURES**
- **BYPASS**
- **HORN VOLUME**
- **REMOTE LED**

**COMPONENT LOCATION INFO ON REVERSE**

---

**DESIGNED SECURITY INC**
1402 Hawthorne St., Bastrop, Texas 78602

**DESIGNER SECURITY INC**
www.dsig.com
Email: dsi@dsigo.com

---

080 272 3565
Fax 912 321 9181